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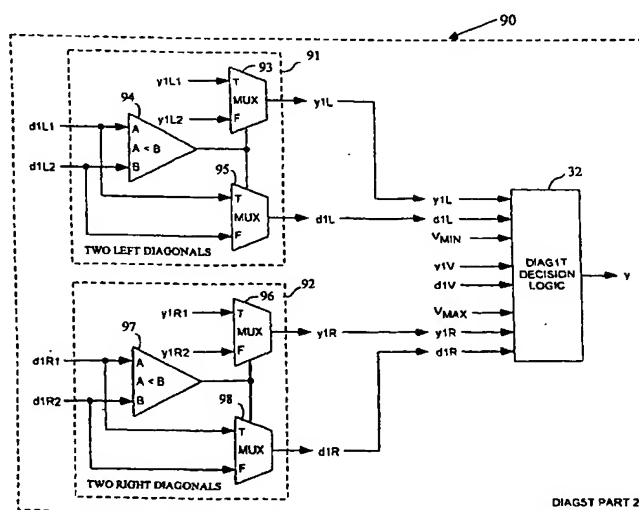
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: UPCONVERSION WITH IMPROVED DIAGONAL ENHANCEMENT



(57) Abstract: Video upconverted from interlaced to progressive has improved diagonal enhancement. A plurality of averages and differences are determined (using 70) from different pixels near a given output pixel, including: a vertical average (y1V), first and second left diagonal averages (y1L1, y1L2), first and second right diagonal averages (y1R1, y1R2), a vertical difference (d1V), first and second left diagonal differences (d1L1, d1L2), and first and second right diagonal differences (d1R1, d1R2). A selection (using 90) among the averages is based on an absolute value of a minimal difference therebetween. The selection is constrained (using 44) to select the vertical average if the differences among the averages are ambiguous, that is, when a value for the given output pixel is not within a range of values defined by pixels vertically adjacent to the given output pixel or when a minimal difference among the respective differences is not unique.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/08353

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04N 7/01, 11/20

US CL : 348/448

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 348/448-452, 458, 459, 441

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
APS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,295,091 B1 (HUANG) 25 September 2001 (26.09.2001), the whole document.	1-20
A	US 5,347,599 A (YAMASHITA et al.) 13 September 1994 (13.09.1994), the whole document.	1-20
A	US 5,093,721 A (RABII) 03 March 1992 (03.03.1992), the whole document.	1-20

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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